

## Case 340 : Narrative

|                                |                                  |
|--------------------------------|----------------------------------|
| Case Vehicle (A): 1999 Mazda   | Veh. (B): 2002 Chevrolet         |
| Type: Prot,g, LX, 4-door sedan | Type: Tracker, 4 x 4, 4-door SUV |
| Driver: 20-year-old female     | Driver: 23-year-old female       |
| CDC: 12-FZEW-1                 | CDC: 11-FLEW-2                   |

### SITUATION

[1](#) It was daylight, the sky was clear and the asphalt surfaces of the intersecting two-lane east/west road and three-lane north/south road were dry and in good condition. [2](#) Case vehicle (A) was traveling north in the center through lane of the three-lane road. [3](#) Vehicle (B) was traveling west in the westbound lane of the two-lane road. [4](#) [5](#) Both vehicles entered the intersection simultaneously and the right front of case vehicle (A) struck the left front of vehicle (B). Both vehicles were towed from the scene.

The police report indicated "B"-level injuries for the driver of case vehicle (A) who was treated at a level-1 trauma center and released. The police report indicates "O"-level injuries for the driver of vehicle (B) and "B"-level injuries for the right-front passenger of vehicle (B), both were transported by ambulance to a local hospital where they were treated and released.

### GENERAL VEHICLE DAMAGE AND ESTIMATED CRASH SEVERITIES

[6](#) [7](#) Damage to case vehicle (A) was moderate. Direct damage began at the right-front bumper corner and extended 61-cm to the left, resulting in 43-percent vehicle overlap (VOL). The maximum crush was 24 cm to the right-front bumper corner.

[8](#) Damage to vehicle (B) was moderate. [9](#) Direct damage began at the left-front bumper corner and extended 47-cm to the right, resulting in 34-percent vehicle overlap (VOL). [10](#) The maximum crush was 38 cm at the left-front bumper corner. [11](#) [12](#) There were no significant changes in the left and right wheelbases of vehicle (B).

Using the WinSMASH crash-reconstruction program and [6](#) [7](#) [13](#) c-values measured for case vehicle (A) and [14](#) [15](#) [16](#) vehicle (B), the following impact severities were calculated:

|                  |          | Calculated Velocity Change - kph (mph) |              |             |
|------------------|----------|--|--------------|-------------|
| Vehicle          | Variable | Total                                  | Longitudinal | Latitudinal |
| Case Vehicle (A) | delta V  | 25 (16)                                | -25 (-16)    | -4 (-3)     |
| Vehicle (B)      | delta V  | 21 (13)                                | -16 (-10)    | 13 (8)      |

## DESCRIPTION OF DAMAGE TO CASE VEHICLE (A)

### Exterior

[7](#) [17](#) In the front, direct damage was confined to the right of center. The bumper, the grille, and the right-front portion of the hood were crushed rearward, the bumper cover was partially torn off, and the right headlight assembly was damaged. The hood latch was damaged and jammed closed. [18](#) [19](#) Both hood hinges were deflected up and to the left but they were not separated. [20](#) [21](#) [22](#) The rear edge of the hood was slightly elevated and it contacted and cracked the lower right corner of the windshield. [23](#) There was no damage to the roof and the sunroof was open.

[24](#) [25](#) On the right side, damage was confined to the fender, which was crushed rearward. Both right-side doors were undamaged and operational and the right-

side glazing was intact. [26](#) There was no significant change in the right wheelbase.

[27](#) [28](#) [29](#) There was no damage to the rear or left side of the vehicle.

## **Interior**

This vehicle was equipped with steering-wheel and passenger-side dash-mounted frontal-impact airbags, and [30](#) [31](#) [32](#) both deployed during the offset-frontal impact. [33](#) [34](#) [35](#) [36](#) There was no damage to the steering-wheel airbag or module flaps and [40](#) [41](#) [42](#) there was no deformation of the steering-wheel rim, [43](#) but the right spokes were slightly deformed. There was no deflection of the steering column. [44](#) The rearview mirror was cracked and there was a star-patterned crack in, and scuff marks on, the upper center of the windshield. [45](#) The transmission lever was scuffed and [46](#) the glove box door was separated from the dash. There was no damage to the dash-mounted airbag or [37](#) [38](#) the module covers/flaps, [39](#) but the deploying airbag contacted and cracked the right side of the windshield. [47](#) [48](#) [49](#) [50](#) [51](#) [52](#) [53](#) [54](#) [55](#) There were no intrusions and there was no other interior damage.

## **OCCUPANT KINEMATICS AND INJURIES**

[56](#) The 20-year-old female driver was using the three-point belt and the [30](#) steering-wheel airbag deployed. [57](#) There were no webbing imprints on the D-ring or [58](#) sliding latch plate, and [59](#) there were no plastic transfers on the belt webbing, [60](#) but the belt webbing was pulled out and would not retract, indicating probable belt use at the time of the crash.

On impact, the driver moved forward and slightly to the right relative to the vehicle interior, into the belt restraint and airbag. She sustained abrasions to the volar aspects of both forearms, probably due to contact by the deploying airbag.

She sustained a contusion to the upper medial aspect of the proximal left calf, probably due to contact with her right leg.

The following table and attached drawing [61](#) summarize the injuries for the driver of case vehicle (A).

| Occupant: Driver  | Age: 20 years    | Gender: Female |           |          |
|---|------------------|----------------|-----------|----------|
| Restraints: 3-point belt; steering-wheel airbag         | Stature: Unknown | Mass: Unknown  |           |          |
| Injury Description                                      | A.I.S.           | Injury Source  |           |          |
| —   | —                | Definite       | Probable  | Possible |
|   |                  |                |           |          |
| Abrasions, volar aspects of the right and left forearms | 1                | —              | Airbag    | —        |
| Contusion, medial aspect of proximal left calf          | 1                | —              | Right leg | —        |
| Maximum A.I.S. Level                                    | 1                | —              | —         | —        |
| Injury Severity Score                                   | 1                | —              | —         | —        |

CASE NO.: 148629

CASE VEHICLE: 1999 Honda

TYPE: Postage CL, 4-door sedan

DECEASED: Driver (36-year-old female)

STYLING: Unknown (MARS) Unknown

RESTRAINTS: 3-point belt, steering-wheel  
airbag

SEVERITY: MAX- 3 ; MIN- 1



[illegible]

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

**Figure 1**

Received 10 May 2002; accepted 10 September 2002

**Abstract**

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**Figure 1**



# Vehicle Report

## General

## Conditions

| Variable Number and Name               | Code Value | Code Description     | Other Options        |
|--|------------|----------------------|----------------------|
| V206 — Urban/Rural Area                | 1          | Urban                | <a href="#">more</a> |
| V207 — Limited Access Highway          | 0          | No                   | <a href="#">more</a> |
| V208 — Road Total Lanes                | 2          | 2 lanes              | <a href="#">more</a> |
| V209 — Intersecting Road Total Lanes   | 3          | 3 lanes              | <a href="#">more</a> |
| V210 — Road Surface Type               | 1          | Asphalt              | <a href="#">more</a> |
| V211 — Road Defects                    | 0          | No                   | <a href="#">more</a> |
| V212 — Construction Zone               | 0          | No                   | <a href="#">more</a> |
| V213 — Road Alignment Vertical Plane   | 1          | Level                | <a href="#">more</a> |
| V214 — Road Alignment Horizontal Plane | 3          | T-shaped             | <a href="#">more</a> |
| V215 — Surface Covering                | 10         | Dry                  | <a href="#">more</a> |
| V216 — Visibility Limitation           | 0          | None                 | <a href="#">more</a> |
| V217 — Visibility Obstruction          | 0          | None                 | <a href="#">more</a> |
| V218 — Speed Limit                     | 2          | 56-60 km/h .. 35 mph | <a href="#">more</a> |
| V219 — Precipitation Type              | 0          | None                 | <a href="#">more</a> |
| V220 — Precipitation Rate              | 8          | Not applicable       | <a href="#">more</a> |
| V221 — Temperature                     | 9          | Unknown              | <a href="#">more</a> |
| V222 — Crosswind                       | 9          | Unknown              | <a href="#">more</a> |
| V223 — Light Conditions                | 1          | Daylight             | <a href="#">more</a> |
| V224 — Mechanical Malfunction Mention  | 0          | No                   | <a href="#">more</a> |
| V225 — Case Vehicle and Object         | 0          | No                   | <a href="#">more</a> |

|   |    |                               |                      |
|---|----|-------------------------------|----------------------|
| V226 — Case Vehicle Rollover                        | 0  | No                            | <a href="#">more</a> |
| V227 — Case Vehicle Ran Off Roadway                 | 0  | No                            | <a href="#">more</a> |
| V228 — Moving Case Vehicle/Contacted Moving Vehicle | 1  | Yes                           | <a href="#">more</a> |
| V229 — Case Vehicle/Contacted Stopped Vehicle       | 0  | No                            | <a href="#">more</a> |
| V230 — Stopped Case Vehicle/Contactd Vehicle        | 0  | No                            | <a href="#">more</a> |
| V231 — Total Vehicles Hit By Case Vehicle           | 1  | 1 vehicle                     | <a href="#">more</a> |
| V232 — Any Fire in Crash                            | 0  | No                            | <a href="#">more</a> |
| V233 — Max Police Severity-PAR                      | 2  | B - Non-Incapacitating Injury | <a href="#">more</a> |
| V234 — Driver Alcohol Involvement                   | 0  | Had not been drinking         | <a href="#">more</a> |
| V235 — Driver Alcohol BAC                           | 80 | Not tested                    | <a href="#">more</a> |
| V236 — Driver Impairment Mention                    | 0  | No                            | <a href="#">more</a> |
| V237 — Driven/Towed From Scene                      | 2  | Towed Due to Damage           | <a href="#">more</a> |

## Other Vehicle

| Variable Number and Name                    | Code Value   | Code Description                               | Other Options        |
|---|--------------|--|----------------------|
| V301 — Other Vehicle VIN                    | 2CNBJ634X269 | —  | —                    |
| V302 — Other Vehicle Manufacturer/Body Code | 21314        | —  | —                    |
| V303 — Other Vehicle Manufacturer           | 213          | Chevrolet                                      | <a href="#">more</a> |
| V304 — Other Vehicle Body Code              | 14           | Short wheelbase utility vehicle (Jeep, Bronco) | <a href="#">more</a> |
| V305 — Other Vehicle                        | 2935         | Geo Tracker 4X4                                | <a href="#">more</a> |



|  |           |  |                      |
|--|-----------|--|----------------------|
| Make/Model                               |           |  |                      |
| V306 — Other Vehicle Model Year          | 2002      | —  | —                    |
| V307 — Other Vehicle Mass                | 001355 kg | —  | —                    |
| V308 — Other Vehicle Number              | 1         | Vehicle #1                                 | <a href="#">more</a> |
| V309 — Other Vehicle Number of Occupants | 02        | —  | —                    |
| V310 — Other Vehicle Traveling Speed     | 999       | Unknown                                    | <a href="#">more</a> |
| V311 — Highest Police Injury Severity    | 2         | B - Non-Incapacitating Injury              | <a href="#">more</a> |
| V312 — Other Vehicle Type                | 14        | Small utility (wheelbase <107", e.g. Jeep) | <a href="#">more</a> |
| V313 — Other Vehicle Wheelbase (cm)      | 248 cm    | —  | —                    |
| V314 — Average Track Width               | 146 cm    | —  | —                    |
| V315 — Overall Length                    | 406 cm    | —  | —                    |
| V316 — Overall Width (OAW)               | 172 cm    | —  | —                    |
| V317 — Front Overhang (FOH)              | 077 cm    | —  | —                    |
| V318 — Rear Overhang (ROH)               | 081 cm    | —  | —                    |
| V319 — Undeformed End Width (UEW)        | 150 cm    | —  | —                    |
| V320 — Engine Displacement               | 2.0 l     | —  | —                    |
| V321 — Engine: Number of Cylinders       | 06        | —  | —                    |
| V322 — Direct Damage Length (DDL)        | 047 cm    | —  | —                    |
| V323 — Front-End Overlap % (FEO)         | 31        | —  | —                    |
| V324 — Vehicle Overlap % (VOL)           | 34        | —  | —                    |

## Case Vehicle

### General

| Variable Number and Name           | Code Value   | Code Description        | Other Options        |
|------------------------------------|--------------|-------------------------|----------------------|
| V401 — VIN                         | JM1BJ2220X01 | —                       | —                    |
| V402 — Manufacturer/Body Code      | 18427        | —                       | —                    |
| V403 — Vehicle Manufacturer        | 184          | Mazda/America           | <a href="#">more</a> |
| V404 — Vehicle Body Code           | 27           | —                       | —                    |
| V405 — Make/Model Code             | 1850         | Protege                 | <a href="#">more</a> |
| V406 — Model Year                  | 1999         | —                       | —                    |
| V407 — Vehicle Mass                | 001142 kg    | —                       | —                    |
| V408 — Odometer Reading            | 888888       | —                       | —                    |
| V409 — Number of Occupants         | 01           | —                       | —                    |
| V410 — Traveling Speed             | 999          | Unknown                 | <a href="#">more</a> |
| V411 — Body Type                   | 14           | 4-door sedan            | <a href="#">more</a> |
| V412 — Stolen Vehicle              | 8            | Not currently collected | <a href="#">more</a> |
| V413 — Body Structure              | 2            | Unitized                | <a href="#">more</a> |
| V414 — Transmission Type           | 1            | Automatic               | <a href="#">more</a> |
| V415 — Transmission Lever Location | 2            | Console                 | <a href="#">more</a> |
| V416 — Steering                    | 1            | Power                   | <a href="#">more</a> |
| V417 — Brakes                      | 1            | Power                   | <a href="#">more</a> |
| V418 — Brake Type                  | 2            | Disc - front wheels     | <a href="#">more</a> |
| V419 — Brake Anti-lock Device      | 0            | None installed          | <a href="#">more</a> |
| V420 — Air Conditioning in Vehicle | 8            | Not currently collected | <a href="#">more</a> |
| V421 — Drive Type                  | 2            | Front wheel             | <a href="#">more</a> |

|                                       |              |               |                      |
|---------------------------------------|--------------|---------------|----------------------|
| V422 — Dual Rear Wheels               | 0            | No            | <a href="#">more</a> |
| V423 — Original Restraint System Type | 3            | Airbag        | <a href="#">more</a> |
| V424 — Equipped With Roll Bar         | 0            | No            | <a href="#">more</a> |
| V425 — Roof Type                      | 5            | Sun roof open | <a href="#">more</a> |
| V426 — Wheelbase                      | 261 cm       | —             | —                    |
| V427 — Anti-lacerative Glass          | 0            | None          | <a href="#">more</a> |
| V428 — Average Track Width            | 147 cm       | —             | —                    |
| V429 — Overall Length                 | 442 cm       | —             | —                    |
| V430 — Overall Width (OAW)            | 170 cm       | —             | —                    |
| V431 — Front Overhang                 | 084 cm       | —             | —                    |
| V432 — Rear Overhang                  | 097 cm       | —             | —                    |
| V433 — Undeformed End Width (UEW)     | 146 cm       | —             | —                    |
| V434 — Engine Displacement            | 1.6 <i>l</i> | —             | —                    |
| V435 — Engine: Number of Cylinders    | 04           | —             | —                    |
| V436 — Direct Damage Length (DDL)     | 061 cm       | —             | —                    |
| V437 — Front End Overlap % (FEO)      | 42           | —             | —                    |
| V438 — Vehicle Overlap % (VOL)        | 43           | —             | —                    |

## Case Vehicle

## Damage

## Description

| Variable Number and Name                 | Code Value | Code Description                                  | Other Options        |
|--|------------|---|----------------------|
| V501 — Maximum Crush - Front             | 024 cm     | —   | —                    |
| V502 — Maximum Crush - Right Side        | 000 cm     | No crush (or less than 1 cm.)                     | <a href="#">more</a> |
| V503 — Maximum Crush - Rear              | 000 cm     | No crush (or less than 1 cm.)                     | <a href="#">more</a> |
| V504 — Maximum Crush - Left Side         | 000 cm     | No crush (or less than 1 cm.)                     | <a href="#">more</a> |
| V505 — Maximum Crush - Roof              | 000 cm     | No crush (or less than 1 cm.)                     | <a href="#">more</a> |
| V506 — Maximum Crush - Other             | 000 cm     | No crush (or less than 1 cm.)                     | <a href="#">more</a> |
| V507 — Are Events In Chronological Order | 1          | Yes   | <a href="#">more</a> |
| V508 — Event 1 Impact Location           | 1          | On Roadway  | <a href="#">more</a> |
| V509 — Event 1 Impact Configuration      | 11         | FRONT of case veh -<br>FRONT of contacted Vehicle | <a href="#">more</a> |
| V510 — Event 1 Object/Vehicle Contacted  | 14         | Small utility<br>(wheelbase <107", e.g. Jeep)     | <a href="#">more</a> |
| V511 — Event 2 Impact Location           | 8          | No 2nd event                                      | <a href="#">more</a> |
| V512 — Event 2 Impact Configuration      | 88         | No 2nd event                                      | <a href="#">more</a> |
| V513 — Event 2 Object/Vehicle Contacted  | 00         | No object/vehicle contacted                       | <a href="#">more</a> |
| V514 — Event 3 Impact Location           | 8          | No 3rd event                                      | <a href="#">more</a> |
| V515 — Event 3 Impact Configuration      | 88         | No 3rd event                                      | <a href="#">more</a> |
| V516 — Event 3 Object/Vehicle Contacted  | 00         | No object/vehicle contacted                       | <a href="#">more</a> |
| V517 — Event 4 Impact Location           | 8          | No 4th event                                      | <a href="#">more</a> |

|  |         |                                  |                      |
|--|---------|----------------------------------|----------------------|
| V518 — Event 4 Impact Configuration            | 88      | No 4th event                     | <a href="#">more</a> |
| V519 — Event 4 Object/Vehicle Contacted        | 00      | No object/vehicle contacted      | <a href="#">more</a> |
| V520 — Event 5 Impact Location                 | 8       | No 5th event                     | <a href="#">more</a> |
| V521 — Event 5 Impact Configuration            | 88      | No 5th event                     | <a href="#">more</a> |
| V522 — Event 5 Object/Vehicle Contacted        | 00      | No object/vehicle contacted      | <a href="#">more</a> |
| V523 — Event 6 Impact Location                 | 8       | No 6th event                     | <a href="#">more</a> |
| V524 — Event 6 Impact Configuration            | 88      | No 6th event                     | <a href="#">more</a> |
| V525 — Event 6 Object/Vehicle Contacted        | 00      | No object/vehicle contacted      | <a href="#">more</a> |
| V526 — Event 7 Impact On Road                  | 8       | No 7th event                     | <a href="#">more</a> |
| V527 — Event 7 Impact Configuration            | 88      | No 7th event                     | <a href="#">more</a> |
| V528 — Event 7 Object/Vehicle Contacted        | 00      | No object/vehicle contacted      | <a href="#">more</a> |
| V529 — Primary CDC Case Vehicle - event Number | 1       | Event 1                          | <a href="#">more</a> |
| V530 — Primary CDC Case Vehicle - impact speed | 999     | Unknown                          | <a href="#">more</a> |
| V531 — Primary CDC Case Vehicle - Estimated By | 1       | Investigator                     | <a href="#">more</a> |
| V532 — Primary CDC Case Vehicle - crush        | 024     | —                                | —                    |
| V533 — Primary CDC Case Vehicle - clock #1     | 12      | 12 o'clock                       | <a href="#">more</a> |
| V534 — Primary CDC Case Vehicle letter 1 #1    | 06      | F - Front                        | <a href="#">more</a> |
| V535 — Primary CDC Case Vehicle letter 2 #1    | 26      | Z - Side or end (B + P or R + C) | <a href="#">more</a> |
| V536 — Primary CDC Case Vehicle letter 3 #1    | 05      | E - Everything below belt line   | <a href="#">more</a> |
| V537 — Primary CDC Case Vehicle letter 4 #1    | 23      | W - Wide impact area             | <a href="#">more</a> |
| V538 — Primary CDC Case Vehicle Extent #1      | 01      | Extent 1                         | <a href="#">more</a> |
| V539 — Primary CDC Case Vehicle - CDC #1       | 12FZEW1 | —                                | —                    |

|   |         |                                |                      |
|---|---------|--------------------------------|----------------------|
| V541 — Primary CDC Case Vehicle letter 1 #2         | 00      | Missing Data/Not applicable    | <a href="#">more</a> |
| V542 — Primary CDC Case Vehicle letter 2 #2         | 00      | Missing Data/Not applicable    | <a href="#">more</a> |
| V543 — Primary CDC Case Vehicle letter 3 #2         | 00      | Missing Data/Not applicable    | <a href="#">more</a> |
| V544 — Primary CDC Case Vehicle letter 4 #2         | 00      | Missing Data/Not applicable    | <a href="#">more</a> |
| V545 — Primary CDC Case Vehicle Extent #2           | 00      | Missing Data/Not applicable    | <a href="#">more</a> |
| V546 — Primary CDC Case Vehicle - CDC #2            | 9800000 | —                              | —                    |
| V547 — Primary CDC Contacted Vehicle - Impact Speed | 999     | Unknown                        | <a href="#">more</a> |
| V548 — Primary CDC Contacted Vehicle - Estimated By | 1       | Investigator                   | <a href="#">more</a> |
| V549 — Primary CDC Contacted Vehicle -crush         | 038     | —                              | —                    |
| V550 — Primary CDC Contacted Vehicle -clock #1      | 11      | 11 o'clock                     | <a href="#">more</a> |
| V551 — Primary CDC Contacted Vehicle letter 1 #1    | 06      | F - Front                      | <a href="#">more</a> |
| V552 — Primary CDC Contacted Vehicle letter 2 #1    | 12      | L - Left (Front or Rear)       | <a href="#">more</a> |
| V553 — Primary CDC Contacted Vehicle letter 3 #1    | 05      | E - Everything below belt line | <a href="#">more</a> |
| V554 — Primary CDC Contacted Vehicle letter 4 #1    | 23      | W - Wide impact area           | <a href="#">more</a> |
| V555 — Primary CDC Contacted Vehicle Extent #1      | 02      | Extent 2                       | <a href="#">more</a> |
| V556 — Primary CDC Contacted Vehicle -CDC #1        | 11FLEW2 | —                              | —                    |
| V558 — Primary CDC Contacted Vehicle letter 1 #2    | 00      | Missing Data/Not applicable    | <a href="#">more</a> |
| V559 — Primary CDC Contacted Vehicle letter 2 #2    | 00      | Missing Data/Not applicable    | <a href="#">more</a> |
| V560 — Primary CDC Contacted Vehicle letter 3 #2    | 00      | Missing Data/Not applicable    | <a href="#">more</a> |
| V561 — Primary CDC Contacted Vehicle letter 4 #2    | 00      | Missing Data/Not applicable    | <a href="#">more</a> |

|   |         |                                       |                      |
|---|---------|---------------------------------------|----------------------|
| V562 — Primary CDC Contacted Vehicle Extent #2        | 00      | Missing Data/Not applicable           | <a href="#">more</a> |
| V563 — Primary CDC Contacted Vehicle -CDC #2          | 9800000 | —                                     | —                    |
| V564 — Secondary CDC Case Vehicle - Event No          | 8       | Not applicable                        | <a href="#">more</a> |
| V565 — Secondary CDC Case Vehicle - Impact Speed      | 998     | Not Applicable                        | <a href="#">more</a> |
| V566 — Secondary CDC Case Vehicle - Estimated By      | 8       | Not applicable (no vehicle/no impact) | <a href="#">more</a> |
| V567 — Secondary CDC Case Vehicle - crush             | 998     | Not Applicable                        | <a href="#">more</a> |
| V568 — Secondary CDC Case Vehicle - clock #1          | 98      | Not Applicable                        | <a href="#">more</a> |
| V569 — Secondary CDC Case Vehicle letter 1 #1         | 00      | Missing Data/Not applicable           | <a href="#">more</a> |
| V570 — Secondary CDC Case Vehicle letter 2 #1         | 00      | Missing Data/Not applicable           | <a href="#">more</a> |
| V571 — Secondary CDC Case Vehicle letter 3 #1         | 00      | Missing Data/Not applicable           | <a href="#">more</a> |
| V572 — Secondary CDC Case Vehicle letter 4 #1         | 00      | Missing Data/Not applicable           | <a href="#">more</a> |
| V573 — Secondary CDC Case Vehicle Extent #1           | 00      | Missing Data/Not applicable           | <a href="#">more</a> |
| V574 — Secondary CDC Case Vehicle - CDC #1            | 9800000 | —                                     | —                    |
| V576 — Secondary CDC Case Vehicle letter 1 #2         | 00      | Missing Data/Not applicable           | <a href="#">more</a> |
| V577 — Secondary CDC Case Vehicle letter 2 #2         | 00      | Missing Data/Not applicable           | <a href="#">more</a> |
| V578 — Secondary CDC Case Vehicle letter 3 #2         | 00      | Missing Data/Not applicable           | <a href="#">more</a> |
| V579 — Secondary CDC Case Vehicle letter 4 #2         | 00      | Missing Data/Not applicable           | <a href="#">more</a> |
| V580 — Secondary CDC Case Vehicle Extent #2           | 00      | Missing Data/Not applicable           | <a href="#">more</a> |
| V581 — Secondary CDC Case Vehicle - CDC #2            | 9800000 | —                                     | —                    |
| V582 — Secondary CDC Contacted Vehicle - Impact Speed | 998     | Not Applicable                        | <a href="#">more</a> |

|   |         |                                       |                      |
|---|---------|---------------------------------------|----------------------|
| V583 — Secondary CDC Contacted Vehicle - Estimated By | 8       | Not applicable (no vehicle/no impact) | <a href="#">more</a> |
| V584 — Secondary CDC Contacted Vehicle -crush         | 998     | Not Applicable                        | <a href="#">more</a> |
| V585 — Secondary CDC Contacted Vehicle -clock #1      | 98      | Not Applicable                        | <a href="#">more</a> |
| V586 — Secondary CDC Contacted Vehicle letter 1 #1    | 00      | Missing Data/Not applicable           | <a href="#">more</a> |
| V587 — Secondary CDC Contacted Vehicle letter 2 #1    | 00      | Missing Data/Not applicable           | <a href="#">more</a> |
| V588 — Secondary CDC Contacted Vehicle letter 3 #1    | 00      | Missing Data/Not applicable           | <a href="#">more</a> |
| V589 — Secondary CDC Contacted Vehicle letter 4 #1    | 00      | Missing Data/Not applicable           | <a href="#">more</a> |
| V590 — Secondary CDC Contacted Vehicle Extent #1      | 00      | Missing Data/Not applicable           | <a href="#">more</a> |
| V591 — Secondary CDC Contacted Vehicle -CDC #1        | 9800000 | —                                     | —                    |
| V593 — Secondary CDC Contacted Vehicle letter 1 #2    | 00      | Missing Data/Not applicable           | <a href="#">more</a> |
| V594 — Secondary CDC Contacted Vehicle letter 2 #2    | 00      | Missing Data/Not applicable           | <a href="#">more</a> |
| V595 — Secondary CDC Contacted Vehicle letter 3 #2    | 00      | Missing Data/Not applicable           | <a href="#">more</a> |
| V596 — Secondary CDC Contacted Vehicle letter 4 #2    | 00      | Missing Data/Not applicable           | <a href="#">more</a> |
| V597 — Secondary CDC Contacted Vehicle Extent #2      | 00      | Missing Data/Not applicable           | <a href="#">more</a> |
| V598 — Secondary CDC Contacted Vehicle -CDC #2        | 9800000 | —                                     | —                    |



## Crash Severity

| Variable Number and Name  | Code Value | Code Description                         | Other Options        |
|---|------------|--|----------------------|
| V601 — Case Vehicle Primary Impact Number                           | 1          | —  | —                    |
| V602 — Primary Impact Total Delta-V                                 | 025 kph    | —  | —                    |
| V603 — Primary Case Vehicle Reconstructed Longitudinal Delta-V      | -025 kph   | —  | —                    |
| V604 — Primary Case Vehicle Reconstructed Lateral Delta-V           | -004 kph   | —  | —                    |
| V605 — Primary Case Vehicle Reconstructed Crush Energy              | 0022 kJ    | —  | —                    |
| V606 — Primary Impact Case Vehicle -reconstruction                  | 22         | Reconstructed, moderate confidence level | <a href="#">more</a> |
| V607 — Primary Case Vehicle Reconstruction Mode                     | 2          | CDC & detailed damage                    | <a href="#">more</a> |
| V608 — Primary Contacted Vehicle Reconstructed Total Delta-V        | 021 kph    | —  | —                    |
| V609 — Primary Contacted Vehicle Reconstructed Longitudinal Delta-V | -016 kph   | —  | —                    |
| V610 — Primary Contacted Vehicle Reconstructed Lateral Delta-V      | 0013 kph   | —  | —                    |
| V611 — Primary Contacted Vehicle Reconstructed Crush Energy         | 0043 kJ    | —  | —                    |
| V612 — Case Vehicle Secondary Impact Number                         | 8          | —  | —                    |
| V613 — Secondary Case Vehicle Reconstructed Total Delta-V           | 888        | N/A                                      | <a href="#">more</a> |
| V614 — Secondary Case Vehicle Reconstructed Longitudinal Delta-V    | 8888       | —  | —                    |
| V615 — Secondary Case Vehicle Reconstructed Lateral Delta-V         | 8888       | —  | —                    |

|   |          |  |                      |
|---|----------|--|----------------------|
| V616 — Secondary Case Vehicle Reconstructed Crush Energy              | 8888     | —  | —                    |
| V617 — Secondary Case Vehicle Reconstruction Note                     | 88       | —  | —                    |
| V618 — Secondary Case Vehicle Reconstruction Mode                     | 8        | Not applicable                           | <a href="#">more</a> |
| V619 — Secondary Contacted Vehicle Reconstructed Total Delta-V        | 888      | N/A                                      | <a href="#">more</a> |
| V620 — Secondary Contacted Vehicle Reconstructed Longitudinal Delta-V | 8888     | —  | —                    |
| V621 — Secondary Contacted Vehicle Reconstructed Lateral Delta-V      | 8888     | —  | —                    |
| V622 — Secondary Contacted Vehicle Reconstructed Crush Energy         | 8888     | —  | —                    |
| V623 — Case Vehicle Primary Impact Number                             | 1        | —  | —                    |
| V624 — Primary Case Vehicle Reconstructed Total EBS                   | 022 kph  | —  | —                    |
| V625 — Primary Case Vehicle Reconstructed Longitudinal EBS            | -021 kph | —  | —                    |
| V626 — Primary Case Vehicle Reconstructed Lateral EBS                 | -004 kph | —  | —                    |
| V627 — Primary Case Vehicle Reconstructed Crush Energy                | 0022 kJ  | —  | —                    |
| V628 — Primary Case Vehicle Reconstruction Note                       | 22       | Reconstructed, moderate confidence level | <a href="#">more</a> |
| V629 — Primary Case Vehicle Reconstruction Mode                       | 2        | CDC & detailed damage                    | <a href="#">more</a> |
| V630 — Primary Contacted Vehicle Reconstruction Total EBS             | 028 kph  | —  | —                    |
| V631 — Primary Contacted Vehicle Reconstruction Longitudinal EBS      | -022 kph | —  | —                    |
| V632 — Primary Contacted Vehicle Reconstruction Lateral EBS           | 0018 kph | —  | —                    |

|  |         |                |                      |
|--|---------|----------------|----------------------|
| V633 — Primary Contacted Vehicle Reconstruction Crush Energy       | 0043 kJ | —              | —                    |
| V634 — Case Vehicle Secondary Impact Number                        | 8       | Not applicable | <a href="#">more</a> |
| V635 — Secondary Case Vehicle Reconstruction Total EBS             | 888     | N/A            | <a href="#">more</a> |
| V636 — Secondary Case Vehicle Reconstruction Longitudinal EBS      | 8888    | —              | —                    |
| V637 — Secondary Case Vehicle Reconstruction Lateral EBS           | 8888    | —              | —                    |
| V638 — Secondary Case Vehicle Reconstruction Crush Energy          | 8888    | —              | —                    |
| V639 — Secondary Case Vehicle Reconstruction Note                  | 88      | —              | —                    |
| V640 — Secondary Case Vehicle Reconstruction Mode                  | 8       | Not applicable | <a href="#">more</a> |
| V641 — Secondary Contacted Vehicle Reconstruction Total EBS        | 888     | N/A            | <a href="#">more</a> |
| V642 — Secondary Contacted Vehicle Reconstruction Longitudinal EBS | 8888    | —              | —                    |
| V643 — Secondary Contacted Vehicle Reconstruction Lateral EBS      | 8888    | —              | —                    |
| V644 — Secondary Contacted Vehicle Reconstruction Crush Energy     | 8888    | —              | —                    |
| V645 — Case Vehicle Reconstructed Impact Number                    | 1       | —              | —                    |
| V646 — Case Vehicle Impact 1 Plane                                 | 1       | Bumper         | <a href="#">more</a> |
| V647 — Case Vehicle Impact 1 Direct Damage Length [DDL]            | 061 cm  | —              | —                    |
| V648 — Case Vehicle Impact 1 Max Crush                             | 025 cm  | —              | —                    |
| V649 — Case Vehicle Impact 1 Field-L                               | 136 cm  | —              | —                    |
| V650 — Case Vehicle Impact 1 C1                                    | 000 cm  | No Crush       | <a href="#">more</a> |

|   |         |                |                      |
|---|---------|----------------|----------------------|
| V651 — Case Vehicle Impact 1 C2                         | 000 cm  | No Crush       | <a href="#">more</a> |
| V652 — Case Vehicle Impact 1 C3                         | 004 cm  | —              | —                    |
| V653 — Case Vehicle Impact 1 C4                         | 010 cm  | —              | —                    |
| V654 — Case Vehicle Impact 1 C5                         | 025 cm  | —              | —                    |
| V655 — Case Vehicle Impact 1 C6                         | 024 cm  | —              | —                    |
| V656 — Case Vehicle Impact 1 +/- D                      | 0048 cm | —              | —                    |
| V657 — Case Vehicle Reconstructed Impact Number         | 1       | —              | —                    |
| V658 — Case Vehicle Impact 2 Plane                      | 1       | Bumper         | <a href="#">more</a> |
| V659 — Case Vehicle Impact 2 Direct Damage Length [DDL] | 047 cm  | —              | —                    |
| V660 — Case Vehicle Impact 2 Max Crush                  | 038 cm  | —              | —                    |
| V661 — Case Vehicle Impact 2 Field-L                    | 132 cm  | —              | —                    |
| V662 — Case Vehicle Impact 2 C1                         | 038 cm  | —              | —                    |
| V663 — Case Vehicle Impact 2 C2                         | 023 cm  | —              | —                    |
| V664 — Case Vehicle Impact 2 C3                         | 017 cm  | —              | —                    |
| V665 — Case Vehicle Impact 2 C4                         | 011 cm  | —              | —                    |
| V666 — Case Vehicle Impact 2 C5                         | 005 cm  | —              | —                    |
| V667 — Case Vehicle Impact 2 C6                         | 002 cm  | —              | —                    |
| V668 — Case Vehicle Impact 2 +/- D                      | -052 cm | —              | —                    |
| V669 — Other Vehicle Reconstructed Impact Number        | 2       | —              | —                    |
| V670 — Other Vehicle Impact 1 Plane                     | 8       | Not applicable | <a href="#">more</a> |

|   |      |                |                      |
|---|------|----------------|----------------------|
| V671 — Other Vehicle Impact 1<br>Direct Damage Length [DDL] | 998  | Not applicable | <a href="#">more</a> |
| V672 — Other Vehicle Impact 1<br>Max Crush                  | 998  | Not applicable | <a href="#">more</a> |
| V673 — Other Vehicle Impact 1<br>Field-L                    | 998  | Not applicable | <a href="#">more</a> |
| V674 — Other Vehicle Impact 1<br>C1                         | 998  | Not applicable | <a href="#">more</a> |
| V675 — Other Vehicle Impact 1<br>C2                         | 998  | Not applicable | <a href="#">more</a> |
| V676 — Other Vehicle Impact 1<br>C3                         | 998  | Not applicable | <a href="#">more</a> |
| V677 — Other Vehicle Impact 1<br>C4                         | 998  | Not applicable | <a href="#">more</a> |
| V678 — Other Vehicle Impact 1<br>C5                         | 998  | Not applicable | <a href="#">more</a> |
| V679 — Other Vehicle Impact 1<br>C6                         | 998  | Not applicable | <a href="#">more</a> |
| V680 — Other Vehicle Impact 1<br>+/- D                      | 9998 | —              | —                    |
| V681 — Other Vehicle<br>Reconstructed Impact Number         | 2    | —              | —                    |
| V682 — Other Vehicle Impact 2<br>Plane                      | 8    | Not applicable | <a href="#">more</a> |
| V683 — Other Vehicle Impact 2<br>Direct Damage Length [DDL] | 998  | Not applicable | <a href="#">more</a> |
| V684 — Other Vehicle Impact 2<br>Max Crush                  | 998  | Not applicable | <a href="#">more</a> |
| V685 — Other Vehicle Impact 2<br>Field-L                    | 998  | Not applicable | <a href="#">more</a> |
| V686 — Other Vehicle Impact 2<br>C1                         | 998  | Not applicable | <a href="#">more</a> |
| V687 — Other Vehicle Impact 2<br>C2                         | 998  | Not applicable | <a href="#">more</a> |
| V688 — Other Vehicle Impact 2<br>C3                         | 998  | Not applicable | <a href="#">more</a> |
| V689 — Other Vehicle Impact 2<br>C4                         | 998  | Not applicable | <a href="#">more</a> |
| V690 — Other Vehicle Impact 2<br>C5                         | 998  | Not applicable | <a href="#">more</a> |

|  |      |                |                      |
|--|------|----------------|----------------------|
| V691 — Other Vehicle Impact 2<br>C6    | 998  | Not applicable | <a href="#">more</a> |
| V692 — Other Vehicle Impact 2<br>+/- D | 9998 | —              | —                    |

## Case Vehicle

### Tires & Rims

| Variable Number and Name                | Code Value | Code Description | Other Options        |
|---|------------|------------------|----------------------|
| V701 — Left Front Wheel Damaged         | 0          | No               | <a href="#">more</a> |
| V702 — Right Front Wheel Damaged        | 0          | No               | <a href="#">more</a> |
| V703 — Right Rear Wheel Damaged         | 0          | No               | <a href="#">more</a> |
| V704 — Left Rear Wheel Damaged          | 0          | No               | <a href="#">more</a> |
| V705 — Left Front Tire Tread Type       | 4          | All Weather      | <a href="#">more</a> |
| V706 — Right Front Tire Tread Type      | 4          | All Weather      | <a href="#">more</a> |
| V707 — Right Rear Tire Tread Type       | 4          | All Weather      | <a href="#">more</a> |
| V708 — Left Rear Tire Tread Type        | 4          | All Weather      | <a href="#">more</a> |
| V709 — Left Front Carcass Construction  | 3          | Radial           | <a href="#">more</a> |
| V710 — Right Front Carcass Construction | 3          | Radial           | <a href="#">more</a> |
| V711 — Right Rear Carcass Construction  | 3          | Radial           | <a href="#">more</a> |
| V712 — Left Rear Carcass Construction   | 3          | Radial           | <a href="#">more</a> |
| V717 — Left Front Tire Size             | P18565R14  | —                | —                    |
| V718 — Right Front Tire Size            | P18565R14  | —                | —                    |
| V719 — Right Rear Tire Size             | P18565R14  | —                | —                    |
| V720 — Left Rear Tire Size              | P18565R14  | —                | —                    |

## Case Vehicle

### Fuel, Tank, Fire

| Variable Number and Name           | Code Value | Code Description                                    | Other Options        |
|------------------------------------|------------|---|----------------------|
| V801 — Propulsive Fuel Type        | 1          | Gasoline  | <a href="#">more</a> |
| V802 — Main Tank Location          | 322        | Within frame/centered laterally - within vertically | <a href="#">more</a> |
| V803 — Main Filler Cap Location    | 113        | Left of frame laterally - above vertically          | <a href="#">more</a> |
| V804 — Main Tank Material          | 2          | Aluminum  | <a href="#">more</a> |
| V805 — Aux Tank Type               | 8          | Not applicable (not equipped)                       | <a href="#">more</a> |
| V806 — Aux Tank Location           | 888        | Not applicable (not equipped)                       | <a href="#">more</a> |
| V807 — Aux Filler Cap Location     | 888        | Not applicable (not equipped)                       | <a href="#">more</a> |
| V808 — Aux Tank Material           | 8          | Not applicable                                      | <a href="#">more</a> |
| V901 — Fuel Leakage From Crash     | 0          | No  | <a href="#">more</a> |
| V1001 — Fire In Or On Case Vehicle | 0          | No  | <a href="#">more</a> |



## Case Vehicle

### Exterior

| Variable Number and Name                  | Code Value | Code Description    | Other Options        |
|---|------------|---------------------|----------------------|
| V1101 — Hood Latch Released               | 0          | No                  | <a href="#">more</a> |
| V1102 — Hood Latch Damaged                | 1          | Yes                 | <a href="#">more</a> |
| V1103 — Hood Latch Jammed                 | 1          | Yes                 | <a href="#">more</a> |
| V1104 — Left Hood Hinge Damaged           | 1          | Yes                 | <a href="#">more</a> |
| V1105 — Left Hood Hinge Separated         | 0          | No                  | <a href="#">more</a> |
| V1106 — Right Hood Hinge Damaged          | 1          | Yes                 | <a href="#">more</a> |
| V1107 — Right Hood Hinge Separated        | 0          | No                  | <a href="#">more</a> |
| V1108 — Hood Remained On Vehicle          | 1          | Yes                 | <a href="#">more</a> |
| V1109 — Rear Hood Edge Elevated           | 1          | Yes                 | <a href="#">more</a> |
| V1110 — Edge Contacted Windshield         | 1          | Yes                 | <a href="#">more</a> |
| V1111 — Edge Penetrated Windshield        | 0          | No                  | <a href="#">more</a> |
| V1112 — Hood Latch Location               | 1          | Front of Vehicle    | <a href="#">more</a> |
| V1113 — Eng/Transmissn Mount Separation   | 0          | No                  | <a href="#">more</a> |
| V1114 — Steerng Column Flex Coupling      | 9          | Unknown if equipped | <a href="#">more</a> |
| V1115 — Steerng Column Coupling Damaged   | 9          | Unknown             | <a href="#">more</a> |
| V1116 — Steerng Column Coupling Separated | 9          | Unknown             | <a href="#">more</a> |
| V1117 — Eng Comp Telescopng Unit          | 88         | Not collected       | <a href="#">more</a> |
| V1118 — Comp Orig/Telescopd Diff          | 888        | Not collected       | <a href="#">more</a> |

|  |   |                               |                      |
|--|---|-------------------------------|----------------------|
| V1119 — Left Side Body Mount Separation  | 8 | Not applicable (unitized)     | <a href="#">more</a> |
| V1120 — Upper Left A-pillar Separation   | 0 | No                            | <a href="#">more</a> |
| V1121 — Lower Left A-pillar Separation   | 0 | No                            | <a href="#">more</a> |
| V1122 — Upper Left B-pillar Separation   | 0 | No                            | <a href="#">more</a> |
| V1123 — Lower Left B-pillar Separation   | 0 | No                            | <a href="#">more</a> |
| V1124 — Upper Left C-pillar Separation   | 0 | No                            | <a href="#">more</a> |
| V1125 — Lower Left C-pillar Separation   | 0 | No                            | <a href="#">more</a> |
| V1126 — Upper Left D-pillar Separation   | 8 | Not applicable (not equipped) | <a href="#">more</a> |
| V1127 — Lower Left D-pillar Separation   | 8 | Not applicable (not equipped) | <a href="#">more</a> |
| V1128 — Left Front Door Opening Cause    | 0 | Door did not open             | <a href="#">more</a> |
| V1129 — Left Rear Door Opening Cause     | 0 | Door did not open             | <a href="#">more</a> |
| V1130 — Left Front Door Jammed Closed    | 0 | No                            | <a href="#">more</a> |
| V1131 — Left Rear Door Jammed Closed     | 0 | No                            | <a href="#">more</a> |
| V1132 — Rear Door Type                   | 0 | No door (includes pickups)    | <a href="#">more</a> |
| V1133 — Rear Door Opening Cause          | 8 | Not applicable (no rear door) | <a href="#">more</a> |
| V1134 — Rear Door Jammed Closed          | 8 | Not applicable (no rear door) | <a href="#">more</a> |
| V1135 — Luggage Partition Damagd         | 0 | No                            | <a href="#">more</a> |
| V1136 — Spare Tire Status                | 8 | Not collected                 | <a href="#">more</a> |
| V1137 — Trailer Hitch Type               | 0 | No hitch                      | <a href="#">more</a> |
| V1138 — Trailer Type                     | 0 | No trailer                    | <a href="#">more</a> |
| V1139 — Right Side Body Mount Separation | 8 | Not applicable (unitized)     | <a href="#">more</a> |

|  |    |                               |                      |
|--|----|-------------------------------|----------------------|
| V1140 — Upper Right A-pillar Separation          | 0  | No                            | <a href="#">more</a> |
| V1141 — Lower Right A-pillar Separation          | 4  | No separation, but damaged    | <a href="#">more</a> |
| V1142 — Upper Right B-pillar Separation          | 0  | No                            | <a href="#">more</a> |
| V1143 — Lower Right B-pillar Separation          | 0  | No                            | <a href="#">more</a> |
| V1144 — Upper Right C-pillar Separation          | 0  | No                            | <a href="#">more</a> |
| V1145 — Lower Right C-pillar Separation          | 0  | No                            | <a href="#">more</a> |
| V1146 — Upper Right D-pillar Separation          | 8  | Not applicable (not equipped) | <a href="#">more</a> |
| V1147 — Lower Right D-pillar Separation          | 8  | Not applicable (not equipped) | <a href="#">more</a> |
| V1148 — Right Front Door Opening Cause           | 00 | Door did not open             | <a href="#">more</a> |
| V1149 — Right Rear Door Opening Cause            | 00 | Door did not open             | <a href="#">more</a> |
| V1150 — Right Front Door Jammed Closed           | 0  | No                            | <a href="#">more</a> |
| V1151 — Right Rear Door Jammed Closed            | 0  | No                            | <a href="#">more</a> |
| V1152 — Van Rear Door Type                       | 8  | Not applicable (not a van)    | <a href="#">more</a> |
| V1153 — Windshield Cracked                       |    | Yes                           | <a href="#">more</a> |
| V1154 — Windshield Broken                        | 0  | No                            | <a href="#">more</a> |
| V1155 — Windshield Cracked or Broken by Occupant | 0  | No                            | <a href="#">more</a> |
| V1156 — Bond Separation Extent                   | 0  | None                          | <a href="#">more</a> |
| V1157 — Windshield Code                          |    | —                             | —                    |
| V1158 — Did Sun/T Roof Open                      | 0  | No                            | <a href="#">more</a> |

## Case Vehicle

### Steering

#### Column/Rim

| Variable Number and Name                | Code Value | Code Description     | Other Options        |
|---|------------|----------------------|----------------------|
| V1201 — Steering Wheel Rim Damage       | 1          | Deformed slightly    | <a href="#">more</a> |
| V1202 — Number of Steering Wheel Spokes | 4          | 4 spokes             | <a href="#">more</a> |
| V1203 — Steering Wheel Spoke Damage     | 1          | Deformed slightly    | <a href="#">more</a> |
| V1204 — Column Tilt Feature             | 2          | Up                   | <a href="#">more</a> |
| V1205 — Column Swing-away Feature       | 0          | Not equipped         | <a href="#">more</a> |
| V1206 — Column Telescoping Feature      | 0          | Not equipped         | <a href="#">more</a> |
| V1207 — Wheel Energy Absorb Device      | 8          | Not collected        | <a href="#">more</a> |
| V1208 — Wheel Ea Orig/Damaged Diff      | 888        | Not collected        | <a href="#">more</a> |
| V1209 — Column Energy Absorb Device     | 88         | Not collected        | <a href="#">more</a> |
| V1210 — Column Ea Orig/Comprss Diff     | 888        | Not collected        | <a href="#">more</a> |
| V1211 — Shear Capsule Separation        | 888        | Not collected        | <a href="#">more</a> |
| V1212 — Column Vertical Rotation        | 0          | No apparent rotation | <a href="#">more</a> |
| V1213 — Column Lateral Rotation         | 0          | No apparent rotation | <a href="#">more</a> |
| V1214 — Steering Wheel Hub Damage       | 0          | None                 | <a href="#">more</a> |

## Case Vehicle

### Intrusion

| Variable Number and Name                   | Code Value | Code Description                              | Other Options        |
|--|------------|---|----------------------|
| V1301 — Occupant Compartment Intrusion     | 0          | No  | <a href="#">more</a> |
| V1302 — Was Intrusion Catastrophic         | 8          | Not applicable                                | <a href="#">more</a> |
| V1303 — Intrusion Number 01                | 00         | No Intrusion, None                            | <a href="#">more</a> |
| V1304 — Intrusion 01 Occupant Space Number | 00         | No Intrusion, None                            | <a href="#">more</a> |
| V1305 — Intrusion 01 Intruding Object      | 00         | No Intrusion, None                            | <a href="#">more</a> |
| V1306 — Intrusion 01 Assoc Event Number    | 0          | No Intrusion, None                            | <a href="#">more</a> |
| V1307 — Intrusion 01 Max Intrusion X-axis  | 00 cm      | 0 cm or No Intrusion                          | <a href="#">more</a> |
| V1308 — Intrusion 01 Max Intrusion Y-axis  | 00 cm      | 0 cm or No Intrusion                          | <a href="#">more</a> |
| V1309 — Intrusion 01 Max Intrusion Z-axis  | 00 cm      | 0 cm or No Intrusion                          | <a href="#">more</a> |
| V1310 — Intrusion 01 Occupant Number       | 00         | No contact or no intrusion                    | <a href="#">more</a> |
| V1311 — Intrusion 01 Injury Number         | 00         | No injury or no intrusion                     | <a href="#">more</a> |
| V1312 — Intrusion 01 Occupant Number       | 00         | No contact or no intrusion                    | <a href="#">more</a> |
| V1313 — Intrusion 01 Injury Number         | 99         | Contact, injury unknown or data not collected | <a href="#">more</a> |
| V1314 — Intrusion Number 02                | 00         | No Intrusion, None                            | <a href="#">more</a> |
| V1315 — Intrusion 02 Occupant Space Number | 00         | No Intrusion, None                            | <a href="#">more</a> |
| V1316 — Intrusion 02 Intruding Object      | 00         | No Intrusion, None                            | <a href="#">more</a> |
| V1317 — Intrusion 02 Assoc Event Number    | 0          | No Intrusion, None                            | <a href="#">more</a> |

|  |       |   |                      |
|--|-------|---|----------------------|
| V1318 — Intrusion 02 Max Intrusion X-axis  | 00 cm | 0 cm or No Intrusion                          | <a href="#">more</a> |
| V1319 — Intrusion 02 Max Intrusion Y-axis  | 00 cm | 0 cm or No Intrusion                          | <a href="#">more</a> |
| V1320 — Intrusion 02 Max Intrusion Z-axis  | 00 cm | 0 cm or No Intrusion                          | <a href="#">more</a> |
| V1321 — Intrusion 02 Occupant Number       | 00    | No contact or no intrusion                    | <a href="#">more</a> |
| V1322 — Intrusion 02 Injury Number         | 00    | No injury or no intrusion                     | <a href="#">more</a> |
| V1323 — Intrusion 02 Occupant Number       | 00    | No contact or no intrusion                    | <a href="#">more</a> |
| V1324 — Intrusion 02 Injury Number         | 99    | Contact, injury unknown or data not collected | <a href="#">more</a> |
| V1325 — Intrusion Number 03                | 00    | No Intrusion, None                            | <a href="#">more</a> |
| V1326 — Intrusion 03 Occupant Space Number | 00    | No Intrusion, None                            | <a href="#">more</a> |
| V1327 — Intrusion 03 Intruding Object      | 00    | No Intrusion, None                            | <a href="#">more</a> |
| V1328 — Intrusion 03 Assoc Event Number    | 0     | No Intrusion, None                            | <a href="#">more</a> |
| V1329 — Intrusion 03 Max Intrusion X-axis  | 00 cm | 0 cm or No Intrusion                          | <a href="#">more</a> |
| V1330 — Intrusion 03 Max Intrusion Y-axis  | 00 cm | 0 cm or No Intrusion                          | <a href="#">more</a> |
| V1331 — Intrusion 03 Max Intrusion Z-axis  | 00 cm | 0 cm or No Intrusion                          | <a href="#">more</a> |
| V1332 — Intrusion 03 Occupant Number       | 00    | No contact or no intrusion                    | <a href="#">more</a> |
| V1333 — Intrusion 03 Injury Number         | 00    | No injury or no intrusion                     | <a href="#">more</a> |
| V1334 — Intrusion 03 Occupant Number       | 00    | No contact or no intrusion                    | <a href="#">more</a> |
| V1335 — Intrusion 03 Injury Number         | 99    | Contact, injury unknown or data not collected | <a href="#">more</a> |
| V1336 — Intrusion Number 04                | 00    | No Intrusion, None                            | <a href="#">more</a> |
| V1337 — Intrusion 04 Occupant Space Number | 00    | No Intrusion, None                            | <a href="#">more</a> |
| V1338 — Intrusion 04                       | 00    | No Intrusion, None                            | <a href="#">more</a> |

|  |       |   |                      |
|--|-------|---|----------------------|
| Intruding Object                           |       |   |                      |
| V1339 — Intrusion 04 Assoc Event Number    | 0     | No Intrusion, None                            | <a href="#">more</a> |
| V1340 — Intrusion 04 Max Intrusion X-axis  | 00 cm | 0 cm or No Intrusion                          | <a href="#">more</a> |
| V1341 — Intrusion 04 Max Intrusion Y-axis  | 00 cm | 0 cm or No Intrusion                          | <a href="#">more</a> |
| V1342 — Intrusion 04 Max Intrusion Z-axis  | 00 cm | 0 cm or No Intrusion                          | <a href="#">more</a> |
| V1343 — Intrusion 04 Occupant Number       | 00    | No contact or no intrusion                    | <a href="#">more</a> |
| V1344 — Intrusion 04 Injury Number         | 00    | No injury or no intrusion                     | <a href="#">more</a> |
| V1345 — Intrusion 04 Occupant Number       | 00    | No contact or no intrusion                    | <a href="#">more</a> |
| V1346 — Intrusion 04 Injury Number         | 99    | Contact, injury unknown or data not collected | <a href="#">more</a> |
| V1347 — Intrusion Number 05                | 00    | No Intrusion, None                            | <a href="#">more</a> |
| V1348 — Intrusion 05 Occupant Space Number | 00    | No Intrusion, None                            | <a href="#">more</a> |
| V1349 — Intrusion 05 Intruding Object      | 00    | No Intrusion, None                            | <a href="#">more</a> |
| V1350 — Intrusion 05 Assoc Event Number    | 0     | No Intrusion, None                            | <a href="#">more</a> |
| V1351 — Intrusion 05 Max Intrusion X-axis  | 00 cm | 0 cm or No Intrusion                          | <a href="#">more</a> |
| V1352 — Intrusion 05 Max Intrusion Y-axis  | 00 cm | 0 cm or No Intrusion                          | <a href="#">more</a> |
| V1353 — Intrusion 05 Max Intrusion Z-axis  | 00 cm | 0 cm or No Intrusion                          | <a href="#">more</a> |
| V1354 — Intrusion 05 Occupant Number       | 00    | No contact or no intrusion                    | <a href="#">more</a> |
| V1355 — Intrusion 05 Injury Number         | 00    | No injury or no intrusion                     | <a href="#">more</a> |
| V1356 — Intrusion 05 Occupant Number       | 00    | No contact or no intrusion                    | <a href="#">more</a> |
| V1357 — Intrusion 05 Injury Number         | 99    | Contact, injury unknown or data not collected | <a href="#">more</a> |
| V1358 — Intrusion Number 06                | 00    | No Intrusion, None                            | <a href="#">more</a> |

|  |       |   |                      |
|--|-------|---|----------------------|
| V1359 — Intrusion 06 Occupant Space Number | 00    | No Intrusion, None                            | <a href="#">more</a> |
| V1360 — Intrusion 06 Intruding Object      | 00    | No Intrusion, None                            | <a href="#">more</a> |
| V1361 — Intrusion 06 Assoc Event Number    | 0     | No Intrusion, None                            | <a href="#">more</a> |
| V1362 — Intrusion 06 Max Intrusion X-axis  | 00 cm | 0 cm or No Intrusion                          | <a href="#">more</a> |
| V1363 — Intrusion 06 Max Intrusion Y-axis  | 00 cm | 0 cm or No Intrusion                          | <a href="#">more</a> |
| V1364 — Intrusion 06 Max Intrusion Z-axis  | 00 cm | 0 cm or No Intrusion                          | <a href="#">more</a> |
| V1365 — Intrusion 06 Occupant Number       | 00    | No contact or no intrusion                    | <a href="#">more</a> |
| V1366 — Intrusion 06 Injury Number         | 00    | No injury or no intrusion                     | <a href="#">more</a> |
| V1367 — Intrusion 06 Occupant Number       | 00    | No contact or no intrusion                    | <a href="#">more</a> |
| V1368 — Intrusion 06 Injury Number         | 99    | Contact, injury unknown or data not collected | <a href="#">more</a> |
| V1369 — Intrusion Number 07                | 00    | No Intrusion, None                            | <a href="#">more</a> |
| V1370 — Intrusion 07 Occupant Space Number | 00    | No Intrusion, None                            | <a href="#">more</a> |
| V1371 — Intrusion 07 Intruding Object      | 00    | No Intrusion, None                            | <a href="#">more</a> |
| V1372 — Intrusion 07 Assoc Event Number    | 0     | No Intrusion, None                            | <a href="#">more</a> |
| V1373 — Intrusion 07 Max Intrusion X-axis  | 00 cm | 0 cm or No Intrusion                          | <a href="#">more</a> |
| V1374 — Intrusion 07 Max Intrusion Y-axis  | 00 cm | 0 cm or No Intrusion                          | <a href="#">more</a> |
| V1375 — Intrusion 07 Max Intrusion Z-axis  | 00 cm | 0 cm or No Intrusion                          | <a href="#">more</a> |
| V1376 — Intrusion 07 Occupant Number       | 00    | No contact or no intrusion                    | <a href="#">more</a> |
| V1377 — Intrusion 07 Injury Number         | 00    | No injury or no intrusion                     | <a href="#">more</a> |
| V1378 — Intrusion 07 Occupant Number       | 00    | No contact or no intrusion                    | <a href="#">more</a> |



|  |       |   |                      |
|--|-------|---|----------------------|
| V1379 — Intrusion 07 Injury Number         | 99    | Contact, injury unknown or data not collected | <a href="#">more</a> |
| V1380 — Intrusion Number 08                | 00    | No Intrusion, None                            | <a href="#">more</a> |
| V1381 — Intrusion 08 Occupant Space Number | 00    | No Intrusion, None                            | <a href="#">more</a> |
| V1382 — Intrusion 08 Intruding Object      | 00    | No Intrusion, None                            | <a href="#">more</a> |
| V1383 — Intrusion 08 Assoc Event Number    | 0     | No Intrusion, None                            | <a href="#">more</a> |
| V1384 — Intrusion 08 Max Intrusion X-axis  | 00 cm | 0 cm or No Intrusion                          | <a href="#">more</a> |
| V1385 — Intrusion 08 Max Intrusion Y-axis  | 00 cm | 0 cm or No Intrusion                          | <a href="#">more</a> |
| V1386 — Intrusion 08 Max Intrusion Z-axis  | 00 cm | 0 cm or No Intrusion                          | <a href="#">more</a> |
| V1387 — Intrusion 08 Occupant Number       | 00    | No contact or no intrusion                    | <a href="#">more</a> |
| V1388 — Intrusion 08 Injury Number         | 00    | No injury or no intrusion                     | <a href="#">more</a> |
| V1389 — Intrusion 08 Occupant Number       | 00    | No contact or no intrusion                    | <a href="#">more</a> |
| V1390 — Intrusion 08 Injury Number         | 99    | Contact, injury unknown or data not collected | <a href="#">more</a> |
| V1391 — Intrusion Number 09                | 00    | No Intrusion, None                            | <a href="#">more</a> |
| V1392 — Intrusion 09 Occupant Space Number | 00    | No Intrusion, None                            | <a href="#">more</a> |
| V1393 — Intrusion 09 Intruding Object      | 00    | No Intrusion, None                            | <a href="#">more</a> |
| V1394 — Intrusion 09 Assoc Event Number    | 0     | No Intrusion, None                            | <a href="#">more</a> |
| V1395 — Intrusion 09 Max Intrusion X-axis  | 00 cm | 0 cm or No Intrusion                          | <a href="#">more</a> |
| V1396 — Intrusion 09 Max Intrusion Y-axis  | 00 cm | 0 cm or No Intrusion                          | <a href="#">more</a> |
| V1397 — Intrusion 09 Max Intrusion Z-axis  | 00 cm | 0 cm or No Intrusion                          | <a href="#">more</a> |
| V1398 — Intrusion 09 Occupant Number       | 00    | No contact or no intrusion                    | <a href="#">more</a> |
| V1399 — Intrusion 09 Injury                | 00    | No injury or no intrusion                     | <a href="#">more</a> |

|  |       |   |                      |
|--|-------|---|----------------------|
| Number                                     |       |   |                      |
| V1400 — Intrusion 09 Occupant Number       | 00    | No contact or no intrusion                    | <a href="#">more</a> |
| V1401 — Intrusion 09 Injury Number         | 99    | Contact, injury unknown or data not collected | <a href="#">more</a> |
| V1402 — Intrusion Number 10                | 00    | No Intrusion, None                            | <a href="#">more</a> |
| V1403 — Intrusion 10 Occupant Space Number | 00    | No Intrusion, None                            | <a href="#">more</a> |
| V1404 — Intrusion 10 Intruding Object      | 00    | No Intrusion, None                            | <a href="#">more</a> |
| V1405 — Intrusion 10 Assoc Event Number    | 0     | No Intrusion, None                            | <a href="#">more</a> |
| V1406 — Intrusion 10 Max Intrusion X-axis  | 00 cm | 0 cm or No Intrusion                          | <a href="#">more</a> |
| V1407 — Intrusion 10 Max Intrusion Y-axis  | 00 cm | 0 cm or No Intrusion                          | <a href="#">more</a> |
| V1408 — Intrusion 10 Max Intrusion Z-axis  | 00 cm | 0 cm or No Intrusion                          | <a href="#">more</a> |
| V1409 — Intrusion 10 Occupant Number       | 00    | No contact or no intrusion                    | <a href="#">more</a> |
| V1410 — Intrusion 10 Injury Number         | 00    | No injury or no intrusion                     | <a href="#">more</a> |
| V1411 — Intrusion 10 Occupant Number       | 00    | No contact or no intrusion                    | <a href="#">more</a> |
| V1412 — Intrusion 10 Injury Number         | 99    | Contact, injury unknown or data not collected | <a href="#">more</a> |
| V1413 — Door Intrusion Number 01           | 88    | Not Applicable                                | <a href="#">more</a> |
| V1414 — Door Intrusion Number 01 Cause     | 8     | Not applicable                                | <a href="#">more</a> |
| V1415 — Door Intrusion Number 02           | 88    | Not Applicable                                | <a href="#">more</a> |
| V1416 — Door Intrusion Number 02 Cause     | 8     | Not applicable                                | <a href="#">more</a> |
| V1417 — Door Intrusion Number 03           | 88    | Not Applicable                                | <a href="#">more</a> |
| V1418 — Door Intrusion Number 03 Cause     | 8     | Not applicable                                | <a href="#">more</a> |
| V1419 — Door Intrusion 01                  | 88    | Not Applicable                                | <a href="#">more</a> |

|  |    |                |                      |
|--|----|----------------|----------------------|
| Component  |    |                |                      |
| V1420 — Door Intrusion 01<br>Component Damaged 1 | 8  | Not Applicable | <a href="#">more</a> |
| V1421 — Door Intrusion 01<br>Component Damaged 2 | 8  | Not Applicable | <a href="#">more</a> |
| V1422 — Door Intrusion 02<br>Component           | 88 | Not Applicable | <a href="#">more</a> |
| V1423 — Door Intrusion 02<br>Component Damaged 1 | 8  | Not Applicable | <a href="#">more</a> |
| V1424 — Door Intrusion 02<br>Component Damaged 2 | 8  | Not Applicable | <a href="#">more</a> |
| V1425 — Door Intrusion 03<br>Component           | 88 | Not Applicable | <a href="#">more</a> |
| V1426 — Door Intrusion 03<br>Component Damaged 1 | 8  | Not Applicable | <a href="#">more</a> |
| V1427 — Door Intrusion 03<br>Component Damaged 2 | 8  | Not Applicable | <a href="#">more</a> |
| V1428 — Door Intrusion 04<br>Component           | 88 | Not Applicable | <a href="#">more</a> |
| V1429 — Door Intrusion 04<br>Component Damaged 1 | 8  | Not Applicable | <a href="#">more</a> |
| V1430 — Door Intrusion 04<br>Component Damaged 2 | 8  | Not Applicable | <a href="#">more</a> |

## Case Vehicle

### Airbag(s)

| Variable Number and Name                   | Code Value | Code Description | Other Options        |
|--|------------|------------------|----------------------|
| V1501 — Driver Airbag Equipped             | 1          | Yes              | <a href="#">more</a> |
| V1502 — Driver Airbag Deployed             | 1          | Yes              | <a href="#">more</a> |
| V1503 — Driver Airbag Condition            | 0          | No Damage        | <a href="#">more</a> |
| V1504 — Passenger Airbag Equip             | 1          | Yes              | <a href="#">more</a> |
| V1505 — Passenger Airbag Deployed          | 1          | Yes              | <a href="#">more</a> |
| V1506 — Passenger Airbag Condition         | 0          | No Damage        | <a href="#">more</a> |
| V1507 — Steering Wheel Airbag Tether       | 1          | Yes              | <a href="#">more</a> |
| V1508 — Driver Airbag Marked By Contact    | 0          | No               | <a href="#">more</a> |
| V1509 — Passenger Airbag Tether            | 0          | No               | <a href="#">more</a> |
| V1510 — Passenger Airbag Marked By Contact | 0          | No               | <a href="#">more</a> |

## Case Vehicle

### Interior

| Variable Number and Name             | Code Value | Code Description | Other Options        |
|--------------------------------------|------------|------------------|----------------------|
| V1601 — Left Front Door Damaged      | 0          | No               | <a href="#">more</a> |
| V1602 — Right Front Door Damaged     | 0          | No               | <a href="#">more</a> |
| V1603 — Left Front Hardware Damaged  | 0          | No               | <a href="#">more</a> |
| V1604 — Right Front Hardware Damaged | 0          | No               | <a href="#">more</a> |
| V1605 — Left Front Armrest Damaged   | 0          | No               | <a href="#">more</a> |
| V1606 — Right Front Armrest Damaged  | 0          | No               | <a href="#">more</a> |
| V1607 — Left Front Glass Damaged     | 0          | No               | <a href="#">more</a> |
| V1608 — Right Front Glass Damaged    | 0          | No               | <a href="#">more</a> |
| V1609 — Left Rear Door Area Damaged  | 0          | No               | <a href="#">more</a> |
| V1610 — Right Rear Door Area Damaged | 0          | No               | <a href="#">more</a> |
| V1611 — Left Rear Hardware Damaged   | 0          | No               | <a href="#">more</a> |
| V1612 — Right Rear Hardware Damaged  | 0          | No               | <a href="#">more</a> |
| V1613 — Left Rear Armrest Damaged    | 0          | No               | <a href="#">more</a> |
| V1614 — Right Rear Armrest Damaged   | 0          | No               | <a href="#">more</a> |
| V1615 — Left Rear Glass Damaged      | 0          | No               | <a href="#">more</a> |
| V1616 — Right Rear Glass Damaged     | 0          | No               | <a href="#">more</a> |
| V1617 — Left Roof Side Rail          | 0          | No               | <a href="#">more</a> |

|                                       |   |                |                      |
|---------------------------------------|---|----------------|----------------------|
| Damaged                               |   |                |                      |
| V1618 — Right Roof Side Rail Damaged  | 0 | No             | <a href="#">more</a> |
| V1619 — Left B-pillar Damaged         | 0 | No             | <a href="#">more</a> |
| V1620 — Right B-pillar Damaged        | 0 | No             | <a href="#">more</a> |
| V1621 — Left C-pillar Damaged         | 0 | No             | <a href="#">more</a> |
| V1622 — Right C-pillar Damaged        | 0 | No             | <a href="#">more</a> |
| V1623 — Left D-pillar Damaged         | 8 | Not applicable | <a href="#">more</a> |
| V1624 — Right D-pillar Damaged        | 8 | Not applicable | <a href="#">more</a> |
| V1625 — Left Headlining Damaged       | 0 | No             | <a href="#">more</a> |
| V1626 — Right Headlining Damaged      | 0 | No             | <a href="#">more</a> |
| V1627 — Left Roof Structure Damaged   | 0 | No             | <a href="#">more</a> |
| V1628 — Right Roof Structure Damaged  | 0 | No             | <a href="#">more</a> |
| V1629 — Left T/Sun Roof Damaged       | 0 | No             | <a href="#">more</a> |
| V1630 — Right T/Sun Roof Damaged      | 0 | No             | <a href="#">more</a> |
| V1631 — Other Left Side Item Damaged  | 8 | Not applicable | <a href="#">more</a> |
| V1632 — Other Right Side Item Damaged | 8 | Not applicable | <a href="#">more</a> |
| V1633 — Foot Controls Damaged         | 0 | No             | <a href="#">more</a> |
| V1634 — Ignition Key Damaged          | 0 | No             | <a href="#">more</a> |
| V1635 — Rear View Mirror Damaged      | 1 | Yes            | <a href="#">more</a> |
| V1636 — Sunvisor/Fitting Damaged      | 0 | No             | <a href="#">more</a> |
| V1637 — Windshield Molding Damaged    | 0 | No             | <a href="#">more</a> |

|  |   |                       |                      |
|--|---|-----------------------|----------------------|
| V1638 — Left A-pillar Damaged          | 0 | No                    | <a href="#">more</a> |
| V1639 — Right A-pillar Damaged         | 0 | No                    | <a href="#">more</a> |
| V1640 — Center Console Damaged         | 0 | No                    | <a href="#">more</a> |
| V1641 — Transmission Lever Damaged     | 3 | No, occupant contact  | <a href="#">more</a> |
| V1642 — Horn/Spoke Shroud Damaged      | 4 | Yes, occupant contact | <a href="#">more</a> |
| V1643 — Upper Panel Damaged            | 0 | No                    | <a href="#">more</a> |
| V1644 — Mid Panel Damaged              | 0 | No                    | <a href="#">more</a> |
| V1645 — Lower Panel Damaged            | 3 | No, occupant contact  | <a href="#">more</a> |
| V1646 — Ashtray Damaged                | 0 | No                    | <a href="#">more</a> |
| V1647 — Control Knob/Lever Damaged     | 0 | No                    | <a href="#">more</a> |
| V1648 — Glove Compartment Area Damaged | 1 | Yes                   | <a href="#">more</a> |
| V1649 — Instruments Damaged            | 0 | No                    | <a href="#">more</a> |
| V1650 — Park Brake Release Damaged     | 0 | No                    | <a href="#">more</a> |
| V1651 — Park Brake Pedal Damaged       | 8 | Not applicable        | <a href="#">more</a> |
| V1652 — A/C Or Upper Vent Damaged      | 0 | No                    | <a href="#">more</a> |
| V1653 — Heater Or A/C Duct Damaged     | 0 | No                    | <a href="#">more</a> |
| V1654 — Radio Damaged                  | 0 | No                    | <a href="#">more</a> |
| V1655 — Other Item Damaged             | 8 | Not applicable        | <a href="#">more</a> |
| V1656 — Rear Window Damaged            | 0 | No                    | <a href="#">more</a> |
| V1657 — Rear Window Header Damaged     | 0 | No                    | <a href="#">more</a> |
| V1658 — Vertical Console Damaged       | 0 | No                    | <a href="#">more</a> |
| V1659 — Roof Console Damaged           | 8 | Not applicable        | <a href="#">more</a> |

## Case Vehicle

### Seats

| Variable Number and Name                     | Code Value | Code Description | Other Options        |
|--|------------|------------------|----------------------|
| V1701 — Driver Front Seat Type               | 05         | Bucket           | <a href="#">more</a> |
| V1702 — Passenger Front Seat Type            | 05         | Bucket           | <a href="#">more</a> |
| V1703 — Driver Seat Mount Type               | 1          | Standard         | <a href="#">more</a> |
| V1704 — Passenger Seat Mount Type            | 1          | Standard         | <a href="#">more</a> |
| V1705 — Driver Swivel Mechanism Equipped     | 0          | No               | <a href="#">more</a> |
| V1706 — Passenger Swivel Mechanism Equipped  | 0          | No               | <a href="#">more</a> |
| V1707 — Driver Seat Original Equipment       | 1          | Yes              | <a href="#">more</a> |
| V1708 — Passenger Seat Original Equipment    | 1          | Yes              | <a href="#">more</a> |
| V1709 — Driver Seat/Rear Occupant Contact    | 8          | Not applicable   | <a href="#">more</a> |
| V1710 — Passenger Seat/Rear Occupant Contact | 8          | Not applicable   | <a href="#">more</a> |
| V1711 — Driver Seat Damage                   | 0          | None             | <a href="#">more</a> |
| V1712 — Passenger Seat Damage                | 0          | None             | <a href="#">more</a> |
| V1713 — Center Front Armrest Damaged         | 0          | No               | <a href="#">more</a> |
| V1714 — Driver Seat Rotation                 | 0          | None apparent    | <a href="#">more</a> |
| V1715 — Passenger Seat Rotation              | 0          | None apparent    | <a href="#">more</a> |
| V1716 — Driver Seat-back Type                | 3          | Reclining        | <a href="#">more</a> |
| V1717 — Passenger Seat-back                  | 3          | Reclining        | <a href="#">more</a> |



|  |   |            |                      |
|--|---|------------|----------------------|
| Type                                       |   |            |                      |
| V1718 — Driver Seat-back Lock Type         | 1 | Manual     | <a href="#">more</a> |
| V1719 — Passenger Seat-back Lock Type      | 1 | Manual     | <a href="#">more</a> |
| V1720 — Driver Seat-back Lock Held         | 1 | Yes        | <a href="#">more</a> |
| V1721 — Passenger Seat-back Lock Held      | 1 | Yes        | <a href="#">more</a> |
| V1722 — Driver Recliner Mechanism Held     | 1 | Yes        | <a href="#">more</a> |
| V1723 — Passenger Recliner Mechanism Held  | 1 | Yes        | <a href="#">more</a> |
| V1724 — Driver Head Restraint Type         | 1 | Adjustable | <a href="#">more</a> |
| V1725 — Passenger Head Restraint Type      | 1 | Adjustable | <a href="#">more</a> |
| V1726 — Driver Head Rest Removed           | 0 | No         | <a href="#">more</a> |
| V1727 — Passenger Head Rest Removed        | 0 | No         | <a href="#">more</a> |
| V1728 — Driver Head Rest Adjustment        | 2 | Down       | <a href="#">more</a> |
| V1729 — Passenger Head Rest Adjustment     | 2 | Down       | <a href="#">more</a> |
| V1730 — Driver Head Rest Damage            | 0 | None       | <a href="#">more</a> |
| V1731 — Passenger Head Rest Damage         | 0 | None       | <a href="#">more</a> |
| V1732 — Driver Seat Adjustment Type        | 1 | Manual     | <a href="#">more</a> |
| V1733 — Passenger Seat Adjustment Type     | 1 | Manual     | <a href="#">more</a> |
| V1734 — Driver Seat Adjustment Provided    | 1 | 2-way      | <a href="#">more</a> |
| V1735 — Passenger Seat Adjustment Provided | 1 | 2-way      | <a href="#">more</a> |
| V1736 — Driver Seat Adjuster Damage        | 0 | None       | <a href="#">more</a> |

|  |   |                                    |                      |
|--|---|------------------------------------|----------------------|
| V1737 — Passenger Seat Adjuster Damage           | 0 | None                               | <a href="#">more</a> |
| V1738 — Driver Seat Adjuster Separation          | 8 | Not applicable                     | <a href="#">more</a> |
| V1739 — Passenger Seat Adjuster Separation       | 8 | Not applicable                     | <a href="#">more</a> |
| V1740 — Driver Seat Pre-crash Position           | 2 | Middle                             | <a href="#">more</a> |
| V1741 — Passenger Seat Pre-crash Position        | 2 | Middle                             | <a href="#">more</a> |
| V1742 — Left Rear Seat Type                      | 6 | Luggage area access panel          | <a href="#">more</a> |
| V1743 — Right Rear Seat Type                     | 6 | Luggage area access panel          | <a href="#">more</a> |
| V1744 — Left Rear Seat Damaged                   | 0 | None                               | <a href="#">more</a> |
| V1745 — Right Rear Seat Damaged                  | 0 | None                               | <a href="#">more</a> |
| V1746 — Center Rear Armrest Damaged              | 8 | Not applicable (No Center Armrest) | <a href="#">more</a> |
| V1747 — Left Rear Seat-back Left Lock Equipped   | 1 | Yes                                | <a href="#">more</a> |
| V1748 — Right Rear Seat-back Left Lock Equipped  | 0 | No                                 | <a href="#">more</a> |
| V1749 — Left Rear Seat-back Left Lock Held       | 0 | No                                 | <a href="#">more</a> |
| V1750 — Right Rear Seat-back Left Lock Held      | 8 | Not applicable                     | <a href="#">more</a> |
| V1751 — Left Rear Seat-back Right Lock Equipped  | 0 | No                                 | <a href="#">more</a> |
| V1752 — Right Rear Seat-back Right Lock Equipped | 1 | Yes                                | <a href="#">more</a> |
| V1753 — Left Rear Seat-back Right Lock Held      | 8 | Not applicable                     | <a href="#">more</a> |
| V1754 — Right Rear Seat-back Right Lock Held     | 0 | No                                 | <a href="#">more</a> |
| V1755 — Left 3rd Seat Equipped                   | 0 | No                                 | <a href="#">more</a> |
| V1756 — Right 3rd Seat Equipped                  | 0 | No                                 | <a href="#">more</a> |

|  |   |                |                      |
|--|---|----------------|----------------------|
| V1757 — Left 3rd Seat<br>Backrest Damaged  | 8 | Not applicable | <a href="#">more</a> |
| V1758 — Right 3rd Seat<br>Backrest Damaged | 8 | Not applicable | <a href="#">more</a> |
| V1759 — Left 3rd Seat<br>Cushion Damaged   | 8 | Not applicable | <a href="#">more</a> |
| V1760 — Right 3rd Seat<br>Cushion Damaged  | 8 | Not applicable | <a href="#">more</a> |
| V1761 — Rear Head<br>Restraints            | 1 | Equipped       | <a href="#">more</a> |

# MEASUREMENTS IN CENTIMETERS



Bumper corner  
Slingline

240

76 Bumper corner  
81 Slingline

Front and slingline measurements are 10% longer than specifications

Max. crush to  
left-front bumper  
corner



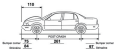
Bumper corner  
Slingline

244

76 Bumper corner  
81 Slingline

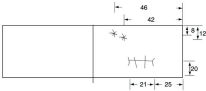
Width of direct contact  
to front bumper

# REQUIREMENTS IN CENTIMETERS



WINDSHIELD MARK ON CASE VEHICLE:





**Windshield cracked on lower right side due to contact by  
passenger airbag or right-front passenger contact**

1 = Definitely 2 = Probably 3 = Possible

## INTRUSION IT-1

| Location of Intrusion | Intruded Component | (All Measurements Are in Centimeters) |                  |             | Dominant Crush Direction |
|-----------------------|--------------------|---------------------------------------|------------------|-------------|--------------------------|
|                       |                    | Comparison Value                      | – Intruded Value | = Intrusion |                          |
|                       | <b>None</b>        |                                       | –                | =           |                          |
|                       |                    |                                       | –                | =           |                          |
|                       |                    |                                       | –                | =           |                          |
|                       |                    |                                       | –                | =           |                          |
|                       |                    |                                       | –                | =           |                          |
|                       |                    |                                       | –                | =           |                          |
|                       |                    |                                       | –                | =           |                          |
|                       |                    |                                       | –                | =           |                          |
|                       |                    |                                       | –                | =           |                          |
|                       |                    |                                       | –                | =           |                          |
|                       |                    |                                       | –                | =           |                          |
|                       |                    |                                       | –                | =           |                          |
|                       |                    |                                       | –                | =           |                          |

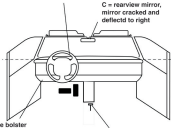
## OCCUPANT CONTACT WORKSHEET

| Contact | Interior Component Contacted | Occupant No. if Known | Body Region if Known | Supporting Physical Evidence          | Confidence Level of Contact Point |
|---------|------------------------------|-----------------------|----------------------|---------------------------------------|-----------------------------------|
| A       | knee bolster                 | Dr                    | lt. leg              | skin transfer                         | 2                                 |
| B       | steering-wheel spokes        | Dr                    | ux                   | deflected forward                     | 2                                 |
| C       | rearview mirror              | Dr                    | unknown              | mirror cracked and deflected to right | 2                                 |
| D       | transmission lever           | Dr                    | rt. arm              | scuffmark                             | 2                                 |
| E       |                              |                       |                      |                                       |                                   |
| F       |                              |                       |                      |                                       |                                   |



**B = steering-wheel spokes,  
deformed**

**C = rearview mirror,  
mirror cracked and  
deflected to right**



**A = knee bolster  
skin transfer**

**D = transmission  
lever, scuffmark**

Driver Rolling



Starts  to  
if you, full-way   
at 1 and 11 o'clock

Ends  to  
if you, full-way

Driver Rolling Over



Passenger Airbag



View 1 ☒ 16  
 Type, how many 3

8 and 18 o'clock are sides

View 2 ☒ 16  
 Type, how many

Passenger Airbag Door



# Case # 340: Occupant # 1; Injury # 1

| Variable Number and Name          | Code Value | Code Description          | Other Options        |
|-----------------------------------|------------|---------------------------|----------------------|
| V2101 — Injury Number             | 01         | Injury #1                 | <a href="#">more</a> |
| V2102 — 1st Prob Contact Area     | 87         | Air cushion skin "airbag" | <a href="#">more</a> |
| V2103 — 2nd Prob Contact Area     | 00         | No Contact/not applicable | <a href="#">more</a> |
| V2104 — Primary OIC -body Region  | 18         | Forearm                   | <a href="#">more</a> |
| V2105 — Primary OIC -aspect       | 18         | Right                     | <a href="#">more</a> |
| V2106 — Primary OIC -lesion       | 01         | Abrasion                  | <a href="#">more</a> |
| V2107 — Primary OIC -system/Organ | 09         | Integumentary             | <a href="#">more</a> |
| V2108 — Primary OIC -severity     | 1          | Minor                     | <a href="#">more</a> |
| V2109 — Primary OIC               | RRAI 1     | —                         | —                    |
| V2110 — Assoc OIC 1 -body Region  | 99         | No injury                 | <a href="#">more</a> |
| V2111 — Assoc OIC 1 -aspect       | 99         | No injury                 | <a href="#">more</a> |
| V2112 — Assoc OIC 1 -lesion       | 99         | No injury                 | <a href="#">more</a> |
| V2113 — Assoc OIC 1 -system/Organ | 99         | No injury                 | <a href="#">more</a> |
| V2114 — Assoc OIC 1 -severity     | 9          | Unknown                   | <a href="#">more</a> |
| V2115 — Assoc OIC 1               | —          | —                         | —                    |

## Case # 340: Occupant # 1; Injury # 2

| Variable Number and Name          | Code Value | Code Description          | Other Options        |
|-----------------------------------|------------|---------------------------|----------------------|
| V2101 — Injury Number             | 02         | Injury #2                 | <a href="#">more</a> |
| V2102 — 1st Prob Contact Area     | 87         | Air cushion skin "airbag" | <a href="#">more</a> |
| V2103 — 2nd Prob Contact Area     | 00         | No Contact/not applicable | <a href="#">more</a> |
| V2104 — Primary OIC -body Region  | 18         | Forearm                   | <a href="#">more</a> |
| V2105 — Primary OIC -aspect       | 12         | Left                      | <a href="#">more</a> |
| V2106 — Primary OIC -lesion       | 01         | Abrasion                  | <a href="#">more</a> |
| V2107 — Primary OIC -system/Organ | 09         | Integumentary             | <a href="#">more</a> |
| V2108 — Primary OIC -severity     | 1          | Minor                     | <a href="#">more</a> |
| V2109 — Primary OIC               | RLAI1      | —                         | —                    |
| V2110 — Assoc OIC 1 -body Region  | 99         | No injury                 | <a href="#">more</a> |
| V2111 — Assoc OIC 1 -aspect       | 99         | No injury                 | <a href="#">more</a> |
| V2112 — Assoc OIC 1 -lesion       | 99         | No injury                 | <a href="#">more</a> |
| V2113 — Assoc OIC 1 -system/Organ | 99         | No injury                 | <a href="#">more</a> |
| V2114 — Assoc OIC 1 -severity     | 9          | Unknown                   | <a href="#">more</a> |
| V2115 — Assoc OIC 1               | —          | —                         | —                    |

# Case # 340: Occupant # 1; Injury # 3

| Variable Number and Name          | Code Value | Code Description          | Other Options        |
|-----------------------------------|------------|---------------------------|----------------------|
| V2101 — Injury Number             | 03         | Injury #3                 | <a href="#">more</a> |
| V2102 — 1st Prob Contact Area     | 38         | Other (e.g. fire)         | <a href="#">more</a> |
| V2103 — 2nd Prob Contact Area     | 00         | No Contact/not applicable | <a href="#">more</a> |
| V2104 — Primary OIC -body Region  | 12         | Leg (lower)               | <a href="#">more</a> |
| V2105 — Primary OIC -aspect       | 12         | Left                      | <a href="#">more</a> |
| V2106 — Primary OIC -lesion       | 03         | Contusion                 | <a href="#">more</a> |
| V2107 — Primary OIC -system/Organ | 09         | Integumentary             | <a href="#">more</a> |
| V2108 — Primary OIC -severity     | 1          | Minor                     | <a href="#">more</a> |
| V2109 — Primary OIC               | LLCI1      | —                         | —                    |
| V2110 — Assoc OIC 1 -body Region  | 99         | No injury                 | <a href="#">more</a> |
| V2111 — Assoc OIC 1 -aspect       | 99         | No injury                 | <a href="#">more</a> |
| V2112 — Assoc OIC 1 -lesion       | 99         | No injury                 | <a href="#">more</a> |
| V2113 — Assoc OIC 1 -system/Organ | 99         | No injury                 | <a href="#">more</a> |
| V2114 — Assoc OIC 1 -severity     | 9          | Unknown                   | <a href="#">more</a> |
| V2115 — Assoc OIC 1               | —          | —                         | —                    |

# Case # 340: Occupant # 1

| Variable Number and Name             | Code Value | Code Description                            | Other Options        |
|--------------------------------------|------------|---|----------------------|
| V2001 — Occupant Number              | 01         | Occupant #1                                 | <a href="#">more</a> |
| V2002 — Occupant Role At 1st Impact  | 1          | Motor vehicle driver                        | <a href="#">more</a> |
| V2003 — Occupant Position -row       | 1          | 1st row                                     | <a href="#">more</a> |
| V2004 — Occupant Position -lateral   | 1          | Left  | <a href="#">more</a> |
| V2005 — Occupant Position -posture   | 10         | Sitting on seat                             | <a href="#">more</a> |
| V2006 — Occupant Age In Years        | 20         | —   | —                    |
| V2007 — Occupant Age In Months       | 25         | 25 months or older                          | <a href="#">more</a> |
| V2008 — Occupant Mass                | 999        | Unknown                                     | <a href="#">more</a> |
| V2009 — Occupant Height              | 999        | Unknown                                     | <a href="#">more</a> |
| V2010 — Occupant Sex                 | 2          | Female                                      | <a href="#">more</a> |
| V2011 — Occupant Treatment/Mortality | 02         | Treated at hospital/clinic but not admitted | <a href="#">more</a> |
| V2012 — Injury Severity Score        | 01         | ISS 1                                       | <a href="#">more</a> |
| V2013 — Non-impact Med Condition     | 0          | None  | <a href="#">more</a> |
| V2014 — Police Injury Severity       | 2          | B - Non-incapacitating Injury               | <a href="#">more</a> |
| V2015 — Active Restraint System      | 3          | Both lap belt and shoulder harness          | <a href="#">more</a> |
| V2016 — Active Restraint Usage       | 3          | Both lap belt and shoulder harness          | <a href="#">more</a> |
| V2017 — Passive Restraint System     | 1          | Air bag installed                           | <a href="#">more</a> |
| V2018 — Passive Restraint Usage      | 2          | Air bag deployed                            | <a href="#">more</a> |
| V2019 — Child Seat Type              | 88         | Not applicable (adult or older child)       | <a href="#">more</a> |
| V2020 — Occupant Ejection Degree     | 0          | None  | <a href="#">more</a> |
| V2021 — Occupant Ejection Area       | 98         | Not applicable (not ejected)                | <a href="#">more</a> |

|                                  |   |          |                      |
|----------------------------------|---|----------|----------------------|
| V2022 — Highest OIC Severity     | 1 | Minor    | <a href="#">more</a> |
| V2023 — Head Restraint Available | 1 | Equipped | <a href="#">more</a> |
| V2024 — Occupant Eyewear         | 9 | Unknown  | <a href="#">more</a> |
| V2025 — Source of Occupant Info  | 1 | Hospital | <a href="#">more</a> |





















ONLY

ONLY

















































SAKSTRUP

CHEVROLET





















TPd  
Acc  
9-8-02

6 02

VC





PTD  
Acc  
0.0.02























































































**WARNING**

Do not drink and drive. Do not use alcohol or drugs before driving. Do not use the vehicle if you are feeling drowsy or fatigued. Do not use the vehicle if you are under the influence of any medication that may impair your ability to drive. Do not use the vehicle if you are feeling dizzy or lightheaded. Do not use the vehicle if you are feeling nauseous or sick. Do not use the vehicle if you are feeling any other symptoms that may impair your ability to drive. Do not use the vehicle if you are feeling any other symptoms that may impair your ability to drive.





















